
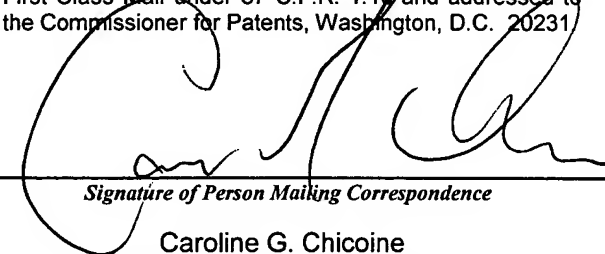
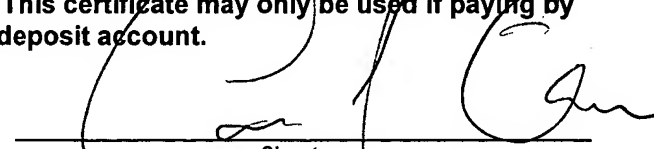


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TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT (Under 37 CFR 1.97(b) or 1.97(c))			Docket No. 66638/37454	
In Re Application Of: Carey A. Smith				
Serial No. 10/649,920	Filing Date 8/25/2003	Examiner To Be Assigned	Group Art Unit To Be Assigned	
Title: State-Space Wavefront Reconstructor for Adaptive Optics Control				
<p>Address to: Commissioner for Patents Washington, D.C. 20231</p> <p>37 CFR 1.97(b)</p> <p>1. <input checked="" type="checkbox"/> The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.</p> <p style="text-align: center;">37 CFR 1.97(c)</p> <p>2. <input type="checkbox"/> The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:</p> <p style="margin-left: 40px;"><input type="checkbox"/> the statement specified in 37 CFR 1.97(e);</p> <p style="text-align: center;">OR</p> <p style="margin-left: 40px;"><input type="checkbox"/> the fee set forth in 37 CFR 1.17(p).</p>				

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Title: State-Space Wavefront Reconstructor for Adaptive Optics Control				
Payment of Fee				
(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))				
<input type="checkbox"/> A check in the amount of _____ is attached. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge and credit Deposit Account No. 20-0823 as described below. A duplicate copy of this sheet is enclosed. <input type="checkbox"/> Charge the amount of \$ _____ <input checked="" type="checkbox"/> Credit any overpayment. <input checked="" type="checkbox"/> Charge any additional fee required.				
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*This certificate may only be used if paying by deposit account.  Signature Caroline G. Chicoine, Reg. No. 38,198 Thompson Coburn LLP One US Bank Plaza St. Louis, Missouri 63101-9928 314-552-6499 314-552-7499 FAX				
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/649,920
				Filing Date	8/25/2003
				First Named Inventor	Carey A. Smith
				Art Unit	To Be Assigned
				Examiner Name	To Be Assigned
Sheet	1	of	2	Attorney Docket Number	66638/37454

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 4,518,854	5/21/1985	Hutchin	
		US- 6,163,381	12/19/2000	Davies et al.	
		US-			
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FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

Examiner Signature	Date Considered
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/649,920
				Filing Date	8/25/2003
				First Named Inventor	Carey A. Smith
				Group Art Unit	To Be Assigned
				Examiner Name	To Be Assigned
Sheet	2		2	Attorney Docket Number	6638/37454

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		JOHN W. HARDY, Adaptive Optics for Astronomical Telescopes, <i>Oxford University Press</i> , 1998 (pages 31-33, and 55-69)	
		WILLIAM H PRESS, et al., Numerical Recipes in C: The Art of Scientific Computing, <i>Cambridge University Press</i> , 1992 (pages 32-36, and 59-71)	
		ARTHUR GELB, Applied Optimal Estimation, <i>The MIT Press</i> , 1974 (pages 102-112)	
		DAVID L. FRIED, Branch Point Problem in Adaptive Optics, <i>Optical Society of America</i> , 1998 (pages 2759-2768)	
		WALTER J. WILD, et al., Rapid and Robust Detection of Branch Points from Wave-Front Gradients, <i>Optical Society of America</i> , 1999 (pages 190-192)	
		GLENN A. TYLER, Adaptive Optics Compensation in Strong Scintillation: Reconstruction and Assessment of the Slope Discrepancy Phase and Its Relation to Branch Points, Fitting Error and Noise, <i>The Optical Sciences Company</i> , 2000 (pages 2-24)	
		GLENN A. TYLER, Reconstruction and Assessment of the Least-Squares and Slope Discrepancy Components of the Phase, <i>Optical Society of America</i> , 2000 (pages 1828-1839)	
		JAMES P. STONE, et al., Branch Cut Sensitive Wavefront Reconstruction for Low Elevation Viewing, <i>AMOS Seminar</i> , 2001 (pages 1-10)	

Examiner Signature		Date Considered	
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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